

RESULT	1
AF084644	
LOCUS	AF084644 2802 bp mRNA PRI
DEFINITION	Homo sapiens orphan nuclear receptor (PAR2) mRNA, complete cds
ACCESSION	AF084644
VERSION	AF084644.1 GI:3769536
KEYWORDS	.

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

Run on: March 29, 2000, 10:21:30 ; Search time 22.21 Seconds

Title: US-09-209-069-18

Perfect score: 2494
Sequence: 1 MVTVTRHHFKESLRAPLP.....QDIHPFATPLMQELFCITGS 473

Scoring table: BLOSUM62

Searched: 188963 seqs, 23686106 residues

Total number of hits satisfying chosen parameters: 188963

```
Minimum DB seq length: 0
Maximum DB seq length: 1000000
```

Post-processing: Minimum match 0%

Database : A_Geneseq_36: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	979.5	39.3	386	1	R98521	Xenopus orphan receptor
2	801	32.1	423	1	W94523	Rat vitamin D receptor
3	798	32.0	473	1	W47509	Rat vitamin D receptor
4	791	31.7	477	1	Y09035	Human vitamin D receptor
5	789	31.6	427	1	W68156	Human vitamin D receptor
6	789	31.6	427	1	Y09064	Human vitamin D receptor
7	789	31.6	450	1	Y09036	Human vitamin D receptor
8	768	30.8	348	1	W32536	Constitutively active
9	768	30.8	348	1	W93902	Human CAR receptor
10	763	30.6	348	1	R41346	Human CAR receptor
11	725	29.1	358	1	W93903	Mouse CAR receptor
12	656	26.3	356	1	W37261	Rat vitamin D receptor
13	656	26.3	356	1	W94622	Rat vitamin D receptor
14	632	25.3	357	1	R43656	Rat vitamin D receptor
15	500.5	20.1	460	1	R74738	Human ubiquitons n
16	500.5	20.1	461	1	R52980	Human ubiquitons n
17	500.5	20.1	461	1	R98140	Human recombinant
18	500.5	20.1	461	1	R97982	NER receptor potent
19	.498	20.0	460	1	W25034	Human steroid recep
20	497.5	19.9	461	1	R96334	Human ubiquitons n
21	491.5	19.7	447	1	W03326	Human foetal lung
22	490	19.6	446	1	R99736	LXR-alpha, orphan
23	488	19.6	446	1	R94169	Retinoid x recepto
24	483.5	19.4	443	1	R74739	OR-1 orphan recep
25	481.5	19.3	443	1	W25035	Rat ubiquitons nuc
26	483.5	19.3	440	1	R33744	Rat ubiquitons nuc
27	472.5	18.9	472	1	W40072	KR2. DNA encoding
28	461	18.5	459	1	W03448	Human retinoid rec
29	455.5	18.3	757	1	W71297	Farnesoid-activat
30	450.5	18.1	484	1	R99735	Lucilia cupripa ec
31	452.5	18.1	456	1	P80921	Retinoid x recept
32	445	17.8	451	1	R99739	Sequence encoded b
33	439.5	17.6	579	1	R71565	Retinoid x recept
34	434.5	17.4	878	1	R13793	EAR-1r gene produ
						CDc50ase receptor.

Query Match	Best Local Similarity	Score	DB 1	Length	386
Matches 202; Conservative	48.6%	Pred. No. 2e-90;	Mismatches 105; Indels 49; Gaps 9;		
57	EDTESVPEKPSVNADEVGPQICVRCGDKATGYHFNMTCEGCGFFRRAMKNARLRC	116			
14	EEDSDASNSCGTGEDEDDGPKICACGDRATGYHFNMTCEGCGFFRRAMKNARLRC	73			
117	PPRKACETTRKTRQCOACRLKCLSGSKGEMIMSDAEVERRALIKR-KSERGTQ	175			
74	PF-QNSCVKINSNRHCCACRLKCLDGMKRELIMSDAAVEORRALIKRKLKLPPT	132			
176	PLGVGLDEEDRMRLMDAQMTFDTTFHFKNRLRPLVLSGCELPESLOAPSRREA	235			
133	PLPGA-SLTPEDQHFTLVGAHKTFFDENFTFSKNER-----PIR---	172			
236	AKWSVRDLDLSLKSLQLRGDEDSVWYKRPADSGGKEIFSLPLPHMADSTYMEKGIS	295			
172	-----SSDPT-----QFQATRS--SFATLMPIHRTVITVYTKRTIS	207			

OM of: US-09-209-069-18 to: GenEmbl:* out_format : pfs

ADDITIONAL INFORMATION: Results were produced by the Gencore software, version 4.5,
 Copyright (c) 1993-2000 Compugen Ltd.

```
-B/cgcn2.1/LSPD0_spool/USO9r2090667/runat.28032000.145604.256882/app_query.fasta.1
-bb-GenEmb1 -QFT=fastsp -SUFFIX=rge -GAPC=12.000 -GAPXTC=4.000
-MINMATHC=0.100 -LOOPCL=0.000 -LOOPEXT=0.500 -QGAPOP=4.500
-OGAPEXT=0.050 -XGAPOP=10.000 -XGAPEXT=0.500 -FGAPOP=6.000
-BEGLPXT=7.000 -YGAPOP=10.000 -YGAPEXT=0.500 -DELOP=6.000
-DELCT=7.000 -START=1 -MATRIX=blosum62 -TRANS=human4.0.cdi
-list=45 -DOCALLIGN=200 -THR_SCORE=pct_ALIGN=15 -MODE=LOCAL
-outfmt=pfs -NORM=ext MINLEN=0 MAXLEN=1000000 -USER=USO9r209066
-NCPU=6 -ICPU=3 -NO_XLPHY -WAIT -THREADS=1
```

```
Database sequences: 821193
Database length: -1518192014
Search time (sec): 1139.270000
```

9b_pat:AF084656	2494.00	3680.74	5.4e-197	2802	1	AF084664 Homo sapiens orp
9b_pat:AF084655	2334.00	3445.96	6.4e-184	2146	1	AF061056 Homo sapiens orp
9b_pat:AF084665	2334.00	3442.90	9.5e-184	2905	1	AF084665 Homo sapiens orp
9b_pat:AF084656	2330.00	3432.66	3.5e-184	2448	1	AF009936 Homo sapiens orp
9b_pat:AF084657	2110.50	3107.17	4.8e-165	4337	1	AJ009937 Homo sapiens r
9b_pat:AF084658	1888.50	2786.01	3.7e-147	1809	1	AF082217 Oryzotilus cucu
9b_pat:AF084659	1796.50	2650.51	1.3e-139	1795	1	AF081814 Mus musculus p
9b_pat:AF084660	1985.00	2633.92	1.0e-138	1755	1	AF051377 Rattus norveg
9b_pat:AF084661	815.50	1194.43	1.7e-58	1638	1	X71613 X. laevis mRNA f
9b_pat:AF084662	815.50	1190.69	2.7e-58	1724	1	U12641 Coturnix japonica
9b_pat:AF084663	815.00	1191.87	2.3e-58	2494	1	AF013562 Gallus gallus v
9b_pat:AF084664	807.50	1180.84	9.5e-58	1782	1	U91846 Xenopus laevis v
9b_pat:AF084665	795.00	1154.07	2.9e-56	4604	1	J04347 Rat 1.25-dihydrox
9b_pat:AF084666	799.50	1182.56	9.9e-57	1284	1	AF02660 Mouse mRNA f
9b_pat:AF084667	789.00	1158.07	1.8e-56	1335	1	AF02660 Homo sapiens v
9b_pat:AF084668	783.00	1157.68	1.8e-56	1335	1	X67462 H. sapiens mRNA f
9b_pat:AF084669	783.00	1147.94	6.4e-56	1450	1	AF009748 Sequence 1 f
9b_pat:AF084670	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084671	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084672	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084673	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084674	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084675	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084676	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084677	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084678	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084679	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084680	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084681	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084682	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084683	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084684	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084685	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084686	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084687	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084688	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084689	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084690	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084691	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084692	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084693	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084694	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084695	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084696	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084697	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084698	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f
9b_pat:AF084699	783.00	1147.94	6.4e-56	1450	1	U73479 Sequence 1 f

seq_documentation_block:	
LOCUS	AF084644 2802 bp mRNA
DEFINITION	Homo sapiens orphan nuclear receptor (PAR2) mRNA, complete cds
ACCESSION	AF084644
VERSION	AF084644.1 GI:3769556
KEYWORDS	
SOURCE	human.
ORGANISM	Homo sapiens

TITLE	Identification of a human nuclear receptor defines a new signaling pathway for CYP3A induction
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 95 (21), 12208-12213 (1998)
MEDLINE	98445350
REFERENCE	2 (bases 1 to 2802)
AUTHORS	Berlissom, G., Asman, M., Blomquist, P. and Berkenstam, A.
TITLE	Direct Submission
JOURNAL	Submitted (19-AUG-1998) Cell and Molecular Biology, Medical Nobel

```
gene      /organism="Homo sapiens"  
          /db_xref="taxon:9606"  
          /tissue_type="liver"  
          1..2802  
/gene="PAR2"  
CDS       60..1481
```

```

gene
CDS
1..2802
/gene="PAR2"
60..1481
/gene="PAR2"
/godon_start=1
/product="Orphan nuclear receptor"
/protein_id="AAC64557.1"
/db_xref="GI:3769537"
/translation="MTVTRHNFKEGSLPAPAIPLTSAALAEIASNHPPELVPR
KESNADAFVCEDETSVPKSPVNADEEVGGIOCRVGDATKATYHFNWATCGGCG
FFPRAMKRNARLRCPFRKGAQETTRTRQCOACRLKLGSGMKKEIMADEAVER
BALFKRKRSERTGTOPGLVGGLTDEBRMMIRBLMDANOKTPTPTTSHKRNRLGVL
SGCLPESLQAPSPREBAKRSQVRKDLCSLKSLOLNGEDSSVMMKPPADSGGELE
SLCPHAMDSTMYMKGLISBAKAYISIFRPLTEDIOSLKGAFAFLCOLRNTVFNNE
TGTTCRCRLSTCELDTRNGEFOALLLEPMILKFTYMMKQLQHEEVLVQALSTSPR
PGLVLOHNVQDLOEPAITIKLSYIECNRPOPAHRFLFKIMMLTELNSINAOHTOLR
LRIDIDFPTPMQELFGITGS"
723 a 715 c 755 g 609 t

```

```

alignment_scores:
    Quality: 2494.00    Length: 473
    Ratio: 5.273        Gaps: 0
Percent Similarity: 100.000    Percent Identity: 100.000

alignment_block:
    US-09-209-069-18 x AF0844644 ..
Align seg 1/1 to: AF0844644 from: 1 to: 2802

```

```

1  MethyVal1hAaGTrHrHSHSHPhLygluLySerLeuAaGAlaPr 17
60  ATGACACTGCACAGGACTCAACACTTCAAGAGGGGCTCCACAGACACC 10
17  caAla1eProLeuH1SerLa1aAla1aGluLeuAl1SerTrnH1Spr0A 34
110  TGCATACCCCTGCACAGTCTCTGGGCTGAGTGGCTTCAACCATTCACAA 15

```